#### SECRET Approved F<u>or</u> Release 2003/04/17 : CIA-RDP78B05<u>17</u>1A000800040044-0

NPIC/TSSG/RED-1935-69 21 November 1969

#### MEMORANDUM FOR THE RECORD

SUBJECT: CCB Meeting 18-20 November 1969

25X1	mentioned the fact of a source of near east photography we were not aware ofhe suggested we check with	25X1
	<ol> <li>We're in the color business (all). The pay off from the last take indicates that the optimistic predictions of color utility are probably correct.</li> </ol>	
ey .	3. Army Ground order of bettle resolution studies Air Force). Extensive.	25X1
25X1	DDS&T) Advises that camera systems are specified by MTF and offers to make these techniques available to us.	
	5. Chip System performed a chip study five years ago. Also there were many others monitored thru ISCIG.	25X1
25X1	6. Dry Silver . Westover has written to "stimulate" their delivery of print materialWestover believes foot dragging is going on.	25X1
25X1	7. Precise Measurement Study NPIC). The need for a PI oriented film distortion study (presumably by was reiterated.  and the CCB concurred that they would support such a study.	25X1 25X1
25X1	8. Improved Resolution Target He has supported study by in this regard and will make a copy available to us.	25X1
25X1	9. Color hes completed a Color Report. Charlie will try to get one for us.	
	10. Automatic Target Indexing AF). He is interested in a possible add-on order. I gave him one year for chinese copy. He is interested in having this capability at pointed out that there is a dilemma in the absence of policy for collection program utilization of such a system.	25X1 25X1 25X1

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11	Briefing on R&D Program	25X1
1.1. e	Birering on the state of the st	
	a. Color film processors	
	b. Color film dryer	
	(1) Microwave	
	(2) Vacuum	
	c. Wide Film Color Processor (70mm - 9.5 inch) 100 ft/min	
	ealled Spectrum Spray Color Processor	
	d. Two Station Printer	
	. Flat Bed Printers offer a significant advantage?	
	They are developing one which gives 5/0 1/mm minimum	ļ
	resolution over the entire frame.	
	described a simple uniform light source for contact	05364
	printers (B&W and color) developed at He is also con-	25X1
	vinced that the air gate is a good means for obtaining institutes	
	contact.	
	f. RS Material	
	"We conclude that progress to date warrants accelerated	
	development of production capability."	
	hniafings given	0EV4
12.	Note: The following paragraphs relate tobriefings given	25X1
on 19 No	wember 1969.	
13.	Color Tutorial Session	25X1
	a. Film types (1) Reversal - Acq. or Dup.	
	(2) Negative - Positive Acq. and/or Dup.	
	(3) Mixed - Reversal/Interneg.	
	and the first for necessary. Cannot be overemphasized.	
	There is no suitable system for objective evaluation of	
	aniam #ilm nerformence at this time	
	THE STATE OF ASSOCIATE OF THE COLOR ILLE IVE	25X1
	our acquisition systems. Further improvements can be made.	
	so 180 is completely inadequate.	
	a. 80 242 Color processing speed is 72 ft/min.	Ì
	e. Best Duping Combination	
	(1) 7271 - interneg	
	(2) 7380 - 3rd stage positive	
	(3) 4 ft/min processing rate	
	(h) 6110/6109 dume materials at NPIC	
	f. Approx. 35% maximum enlargement for original (80 242)	}
	and there	
	g. Three objectives of present color development	25X1
	program	

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	(1) High Performance Conventional Color acquisition material (2) High Performance IR biased acquisition material (3) High Performance Color Duping materials 1. 50 242 may be changed to neg-pos
15.	Color Equipment Situation
	Processors - Current highest speed 72 fpm
· _	Processors - Current highest speed 7½ fpm  On Order two 1811 Versamats 4 fpm  Under development MP <sup>2</sup> SO 242 - 8 fpm; SO 360 - 18 fpm  (1) front end, dryer and wind-up  (2) 24 processing tents
t. b. c.	Processors - Current highest speed 7½ fpm  Co Order two 1811 Versamats 4 fpm  Under development MP <sup>2</sup> SO 242 - 8 fpm; SO 360 - 18 fpm  (1) front end, dryer and wind-up  (2) 24 processing tanks (3) 18 months away (4) 31-40 feet long (5) First Mod to be at
	Processors - Current highest speed 7½ fpm  Ca Order two 1811 Versamats 4 fpm  Under development MP <sup>2</sup> SO 242 - 8 fpm; SO 360 - 18 fpm  (1)
t. b. c.	Processors - Current highest speed 7½ fpm  Ch Order two 1811 Versamats 4 fpm  Under development MP <sup>2</sup> SO 242 - 8 fpm; SO 360 - 18 fpm  (1)
t. b. c.	Processors - Current highest speed 7½ fpm  Ch Order two 1811 Versamats 4 fpm  Under development MP <sup>2</sup> SO 242 - 8 fpm; SO 360 - 18 fpm  (1)

25X1

25X1

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	(a) and a man	
	(e) Contact Printer Development Needed (f) Basic Knowledge needed	
	e. Color Repro Support Equipment (1) Edge flasher for optical titling	
	(2) Densitometer modifications	
	(3) Color Densitometry in general (4) Color Analyzer (5) Color Viewer Study	
	(5) Color Viewer Study (6) Production Footly	
5574	(6) Production Facility to house this effort.	
25X1	16. Summary	
!	a. Many changes in store b. Many unknowns	
	c. Very likely change the 80-242 to a negarity and	
	d. Must be used to stimulate interest	
	17. Requested a summary report from on this color briefing to be delivered before Christmas	25X1
	de de la company	25X1
	18. Noted the significance of the chip concept to the advent of significant quantities of color	25X1
25X1	19. Requested estimates of comparative costs of Color vs. B&W answered as follows:	
	a. Acquisition: 2 to 1	
	b. Reproduction: 5 to 1 (Might be reduced to 3 to 1 by processing 50-242 as a	
	negative)	
	20. Silver Discussion sees no problem. Many	25X1
25X1	inactive mines are reopened as silver price goes up	25X1
25X1 25X1	22. PAR 176B Production Oriented Color	
	a. For easing customer duplication	
25X1	o. Based on printer and the RPE	
	c. Light tight housing d. Easel rotation	
	e. Roll stock reproduction system	
	f. Subtractive Illumination System g. Rapid Exposure	
	h. Simplicity of setting three color numbers the real secret of production orientation.	
	production of tentacion.	

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	i. 26 months to develop  j. 5% and/or 10% enlargement?  L. 11" x 14" size	e of the segment
	22. The resolution (200 1/mm) and diagonal 3.8" product = approx. 18.000 cycles the maximum performance of current operational optical systems a quazi bandwith figures	25X
25X1	23. PAR 175B Video Color Analyzer.	
25X1 25X1	a. Color densitometry difficulty.  b. Based on existing equipment marketed by but produced by retail price retail price  c. Modification cost 23 months.  d. Kaleidescope computer program brought up by as superior to and obviating the Video Color Analyzer.	25X 25X 25X 25X
25X1	24. PAR 1778 Narrow Band Color Viewer	
25X1 25X1	b. Apt. Vincent together with c suggests getting the review performed.  25. PAR 24-0-8S High Altitude Color Acquisition Criteria. (Real Dot Program)	25X
	<ul> <li>a. 350-900 millimicrons</li> <li>b. Six Red Dot tests to be scheduled for evaluation of advanced IR emulsion.</li> <li>c. Four basic types of soil reflectance.</li> </ul>	
		25X

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	SUBJECT: CCB Meeting 18-20 November 1969	
25X1	reports this ink can be obtained in any color	
25X1	30. PAR 1575/RI Contact Printing Distortion  a. New G terrain camera 5" width UTB  b. Communication channels	
25X1	31. PAR 173B Automatic Scene Camera.	
25X1	a. Evaluation of model bench camera	
25X1	*c. Check with on powerspectrum analysis d. Objective: To bridge gap between processing and exploitation d. Objective: To produce identical test materials for functions. How? To produce identical test materials for	25X1
25X1	functions. How? To produce lating the community.  evaluation by different elements of the community.  Modelarrange for comparison if possible.	
25X1	2. Declaration of Business Transactions  a. Good color report b. PAR 176B. Color-Oriented Production Enlarger. Approved for funding. c. PAR 175B Video Color Analyzer. Deferred for further studydemonstrate concept.  *d. PAR 177S (NPIC). Narrow Band Color Viewer. Deferred pending inputs from NPIC. e. PAR 24-0-88. Study of Characteristics, etc. Approved for funding. f. PAR 173B. Automatic Scene Camera. Approved for funding.	25X1
25X1	33. Next Meeting Mid-February on West Coast.	25X1
	34. Precise Measurement Study Mileting.	20/(.
25X1	a. concerned about the utility and coordination of the various mensuration studies.	
25X1	indicated that RED 18 aware of	
25X1	this coordination.  c. was again reminded of the need for further emulsion distortion analysis specifically related to the short dimensions characteristic of NPIC operations.	

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SUBJECT: CCB Meeting 18-20 November 1969

NPIC/TSSG/RED

25X1

a. Modified Printer with Liquid Gate reproduces imagery and removes most of the artifacts normally experienced.
b. NPIC is not particularly concerned about the presence of these artifacts.
c. These artifacts may cause serious problems on the Automs Target Indexing Device.
36. Effects of Dual Gamma Processing on Mensuration (of small images) ( NPIC/TSSG/RED).
mages/ [ NELC/IDDG/RED/.
a. Summarized the Draft Final Report on Project as follows: Study indicates there is not significant difference in mensuration caused by dual gamma processin b very preliminary evaluation of the study is the it is not conclusive.
37. Color Image Assessment Briefing.
Special Assistant for Plans & Application

(24 November 1969)